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Section 22 Connecticut

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# **Connecticut Coastal Structures Inventory Study - Phase II**

July 1989



**US Army Corps  
of Engineers**  
New England Division

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SECTION 22  
CONNECTICUT COASTAL STRUCTURES INVENTORY STUDY

PHASE II - MIDDLESEX AND NEW HAVEN COUNTIES

MAIN REPORT

DEPARTMENT OF THE ARMY  
NEW ENGLAND DIVISION, CORPS OF ENGINEERS  
WALTHAM, MASSACHUSETTS

JULY 1989

MAIN REPORT  
TABLE OF CONTENTS

PAGE

INTRODUCTION

STUDY AUTHORITY	1
STUDY PURPOSE AND SCOPE	1
DESCRIPTION OF THE STUDY AREA	1
OTHER STUDIES	3

METHODOLOGY

FIELD INVESTIGATIONS	3
DATABASE	4
MAPPING	6

RESULTS

SUMMARY	7
STRUCTURE DEFINITIONS	8
LITERATURE CITED	17

Appendix F	Old Lyme Quadrangle-Phase II
Appendix G	Essex Quadrangle-Phase II
Appendix H	Clinton Quadrangle-Phase II
Appendix I	Guilford Quadrangle-Phase II
Appendix J	Branford Quadrangle-Phase II
Appendix K	Woodmont Quadrangle-Phase II
Appendix L	Milford Quadrangle-Phase II

<u>NO.</u>	<u>LIST OF TABLES</u>	<u>PAGE</u>
TABLE 1	Field Survey Sheet	5
TABLE 2	Old Saybrook - List of Structures	9
TABLE 3	Westbrook - List of Structures	10
TABLE 4	Clinton - List of Structures	11
TABLE 5	Madison - List of Structures	12
TABLE 6	Guilford - List of Structures	13
TABLE 7	Branford - List of Structures	14
TABLE 8	East Haven - List of Structures	15
TABLE 9	Milford - List of Structures	16

<u>NO.</u>	<u>LIST OF PLATES</u>	<u>FOLLOWS PAGE</u>
PLATE 5	Old Lyme Quadrangle	17
PLATE 6	Essex Quadrangle	17
PLATE 7	Clinton Quadrangle	17
PLATE 8	Guilford Quadrangle	17
PLATE 9	Branford Quadrangle	17
PLATE 10	Woodmont Quadrangle	17
PLATE 11	Milford Quadrangle	17

<u>NO.</u>	<u>LIST OF FIGURES</u>	<u>PAGE</u>
FIGURE 1	Town and Quadrangle Index	2

## INTRODUCTION

### STUDY AUTHORITY

Authority for this study is contained in "Planning Assistance to States", Section 22 of the Water Resources Development Act of 1974, Public Law 93-251, as amended. This section authorizes cooperation with the states in the preparation of plans for the development, utilization, and conservation of water and related resources. Section 22 studies are limited in scope and cannot be used for design work appropriately done by private sector architect/engineer firms. NED staff members meet with officials from each New England state on an annual basis to discuss potential projects. The Connecticut Department of Environmental Protection, Coastal Resources Management Division requested the Coastal Inventory Project be conducted under the Section 22 program.

### STUDY PURPOSE AND SCOPE

This report documents data as gathered during Phase II of the ongoing project to inventory erosion and flood control structures on the northern shore of Long Island Sound within the statutory boundaries of the State of Connecticut. Harbor areas are not included in the inventory. This study supports the Connecticut Department of Environmental Protection's continuing effort to inventory all existing shoreline, and near shore structures, along the Connecticut coastline and to identify the location of deteriorated coastal structures.

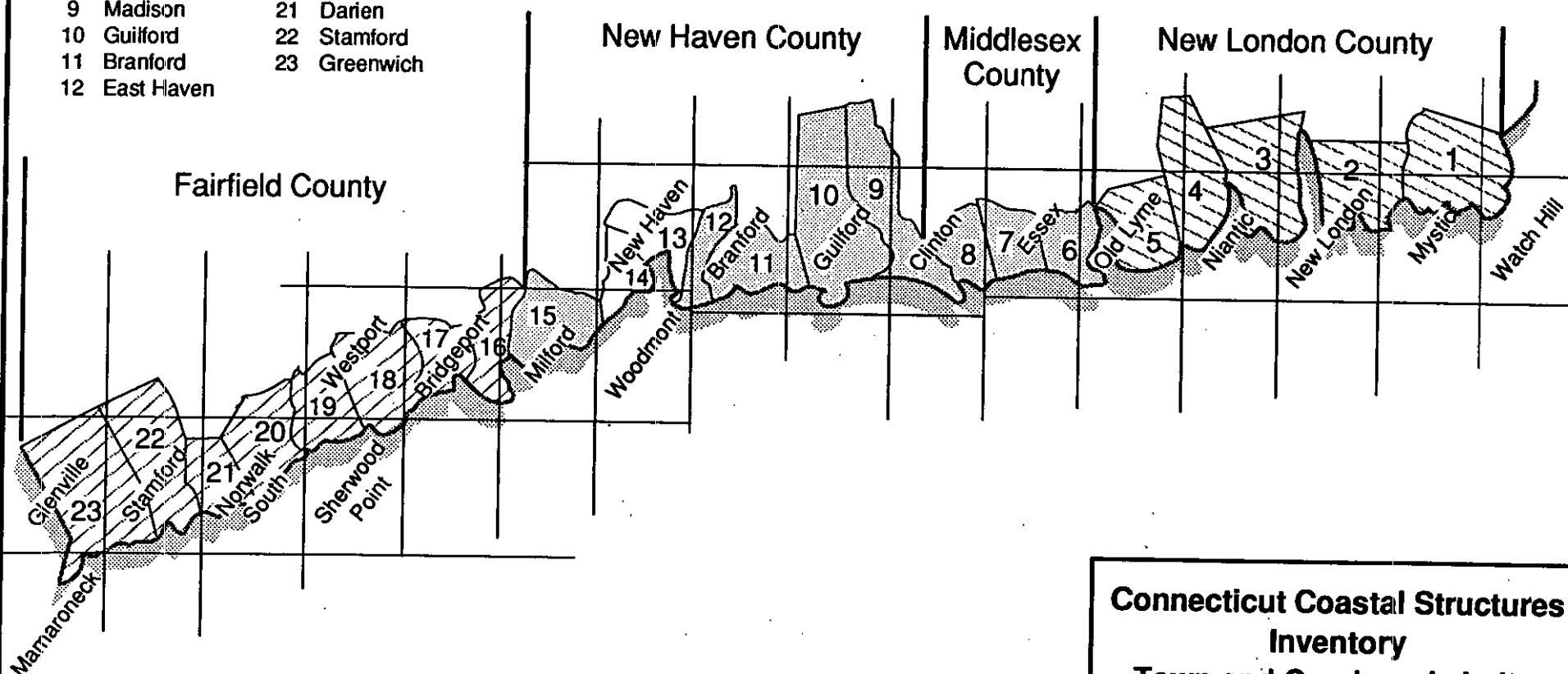
This study is being conducted in three phases. Phase I covered New London County and was completed in September 1988. Phase II, presented in this report, covers Middlesex and New Haven Counties. The proposed study area for Phase III is Fairfield County. Figure 1 illustrates the study area for each study phase.

### DESCRIPTION OF THE STUDY AREA

The southern boundary of the State of Connecticut is the shore of Long Island Sound, a narrow arm of the Atlantic Ocean sheltered by Long Island. The portion of the shore facing open water of Long Island Sound is the main area of interest and is approximately 165 miles long. The shore is irregular and dotted with bays, coves, promontories, and near lying islands. There is intensive development along the waterfront for residential, commercial and recreational purposes. The Phase II study area extends from the Connecticut River to the Housatonic River and includes the towns of Old Saybrook, Westbrook, Clinton, Madison, Guilford, Branford, East Haven, and Milford. New Haven and West Haven are not included in this study as these areas are covered in the New Haven Harbor Report. (Corps 1988)

## Key to towns

- |                |               |
|----------------|---------------|
| 1 Stonington   | 13 New Haven  |
| 2 Groton       | 14 West Haven |
| 3 Waterford    | 15 Milford    |
| 4 East Lyme    | 16 Stratford  |
| 5 Old Lyme     | 17 Bridgeport |
| 6 Old Saybrook | 18 Fairfield  |
| 7 Westbrook    | 19 Westport   |
| 8 Clinton      | 20 Norwalk    |
| 9 Madison      | 21 Darien     |
| 10 Guilford    | 22 Stamford   |
| 11 Branford    | 23 Greenwich  |
| 12 East Haven  |               |



## Connecticut Coastal Structures Inventory Town and Quadrangle Index

- |  |           |
|--|-----------|
|  | Phase I   |
|  | Phase II  |
|  | Phase III |

## OTHER STUDIES

Other studies prepared by the U.S. Army Corps of Engineers for the State of Connecticut and related to the issue of coastal erosion and flooding include a series of reports published from 1949 to 1957 entitled "Beach Erosion Control Reports on Cooperative Study of Connecticut". For these efforts, the Connecticut shoreline was divided into 11 areas and 10 beach erosion control reports containing beach erosion control recommendations were prepared.

In 1976 a report was prepared by the Corps entitled "Connecticut Coastline, Effects of Coastal Storms". This report evaluated the effect of wave runup along the shoreline and indicated areas where wave runup studies should be conducted in the future. Issues considered in the report included the existing and potential future land use along the immediate Connecticut coastline, population trends, physical features and characteristics of the shoreline and the forces which directly effect the erosion process.

More recently, in 1980, the Corps compiled a "Project Maps" report on Corps', navigation, beach erosion control, and flood control projects. This report contains a project map and information sheet for each Corps' project. Corps beach erosion control projects in Middlesex and New Haven Counties include projects in Madison, Guilford, West Haven, New Haven, and Milford

Under the Section 22 study authority three harbor inventory reports have also been prepared; namely New London Harbor, Bridgeport Harbor, and New Haven Harbor.

In 1988, a Reconnaissance Study of Tidal Flood Management for the Towns of East Haven, New Haven, West Haven, Milford, Stratford, Bridgeport, Fairfield, and Westport was completed by the Corps. This study was authorized by a Resolution of the U.S. Senate Public Works Committee. This was a one year study which identified and evaluated the feasibility of alternative flood damage reduction measures. Initial evaluation of these communities indicated further study is warranted at five sites located in the communities of Westport, Milford, and Fairfield.

Shore protection manuals by the Corps Coastal Engineering Research Center were used in preparation of the structure definitions section for this report.

## METHODOLOGY

### FIELD INVESTIGATIONS

A review of existing information on erosion control and flood control projects, USGS topographic quadrangles (1:24000 scale), and aerial photography indicated that there were numerous coastal erosion and flood control structures along the Connecticut shoreline. The use, type, or number of structures could not be determined from the existing mapped information. It was therefore necessary to conduct field investigations. These were done for Phase II during the summer of 1988.

The field investigations proceeded south from the Connecticut to the Housatonic River covering New Haven and Middlesex Counties. This area represents approximately one third of the Connecticut coastline. Structures inside of harbors were not inventoried as part of this effort.

The field team identified the location of the structure on the appropriate USGS quadrangle, recorded site information on a field survey sheet, and photographed each site. Information was collected by observation on the type, dimensions, and construction material of the structure. The apparent purpose of the structure and its condition as well as the type of land use at and adjacent to the structure including access and ownership were noted. No engineering measurements were made at the sites.

The types of structures identified included seawalls, bulkheads, revetments, groins, riprap shorelines, breakwaters, and jetties. Construction materials included stone, concrete, wood, and steel. Structure dimensions were estimated visually or where possible a tape measure was used. Estimates of height of the structure above or below the mean high water were estimated from the high water mark apparent on the shore, or structure. These dimensions are only intended to aid in describing the structure and should not be considered as engineering estimates.

The condition of the structure was rated as good, fair, or poor based on visual observation by field workers. But this rating is not considered an engineering judgement. The ownership of the site and access to the site was assessed to be either private, or public based on visual observation. Sites considered private included structures in front of homes, commercial establishments, and at town beaches which were not open to the general public.

A field sheet was used to record this data at each site and is included as Table 1. The amount and level of detail of the information gathered at each structure was dependent on the physical accessibility of the site.

#### DATABASE

A database management system was developed using DBASE III to store the collected data. A record of information was entered into the database for each structure. This information was taken from the field survey sheets. An inventory number and the appropriate USGS quadrangle name was used to identify each structure recorded in the database.

TABLE 1  
CONNECTICUT COASTAL STRUCTURES INVENTORY  
FIELD SHEET

INVENTORY NUMBER (7) \_\_\_\_\_

QUAD (15) \_\_\_\_\_

ADDRESS (25) \_\_\_\_\_

TOWN (20) \_\_\_\_\_

COUNTY (20) \_\_\_\_\_

STATE (2) \_\_\_\_\_

STRUCTURE TYPE (15)

MAIN FUNCTION (60)

___ SEAWALL	___ SEPARATES LAND AND WATER, PREVENTS EROSION AND FLOODING
___ BULKHEAD	___ RETAINS LAND, PREVENTS SLIDING OF BANK AND EROSION
___ REVETMENT	___ FACING ON SLOPE WHICH PREVENTS EROSION
___ GROIN(S)	___ TRAPS LITTORAL DRIFT, RETARDS SHORE EROSION
___ RIPRAP	___ PROTECTIVE LAYER WHICH PREVENTS EROSION OF A SLOPE
___ BREAKWATER	___ PROTECTS HARBOR/ANCHORAGE BY INTERCEPTING WAVES
___ JETTY	___ PREVENTS SHOALING OF CHANNEL BY LITTORAL DRIFT
___ OTHER (15)	

CONDITION

\_\_\_ GOOD \_\_\_ FAIR \_\_\_ POOR

MATERIAL

\_\_\_ STONE IN CEMENT

\_\_\_ CONCRETE

\_\_\_ STEEL

\_\_\_ WOOD

\_\_\_ STONE

\_\_\_ QUADRIPODS

\_\_\_ STONE BLOCKS

\_\_\_ IRR. STONE FRAG

\_\_\_ LARGE BOULDERS

\_\_\_ STEEL PILE

\_\_\_ TIMBER PILE

\_\_\_ CEMENT BLOCKS

\_\_\_ OTHER (15)

GEN. DESC. (3 X 60) L= \_\_\_\_\_ FT W= \_\_\_\_\_ FT H= \_\_\_\_\_ FT ABOVE/BELOW MHW

INSPECTION DATE (6) \_\_\_\_/\_\_\_\_/\_\_\_\_

INSPECTION TIME (4) \_\_\_\_\_ (MILITARY)

PERMIT (6) \_\_\_\_\_

OWNER (25) \_\_\_ PRIVATE \_\_\_ PUBLIC

ACCESS (25) \_\_\_ PRIVATE \_\_\_ PUBLIC

LAND USE (30)

\_\_\_ RESIDENTIAL

\_\_\_ RECREATIONAL

\_\_\_ COMMERCIAL

\_\_\_ INDUSTRIAL

\_\_\_ INSTITUTIONAL

PICTURES (5 X 30)

ROLL \_\_\_\_\_ NEG \_\_\_\_\_

ROLL \_\_\_\_\_ NEG \_\_\_\_\_

COMMENTS, SHORE COMPOSITION, MISC. NOTES (3 X 60)

The data base management system is accessed through a series of menus that allows addition of records, editing and deletion of records, and searching of records for specified criteria. The full record of information or a line listing of selected information from a record can be output to either the screen or printer. In the future this database should be useful for sorting and selecting coastal structures information.

#### MAPPING

The locations of the structures were mapped on 7.5 minute USGS topographic quadrangles. These locations are shown in Plate 5 through Plate 11. The quadrangles used and towns covered are listed below.

- Plate 5 represents the Old Lyme Quadrangle and covers the shore area for the communities of Old Lyme and a portion of Old Saybrook. Information on the structures in the community of Old Lyme is covered in the Phase I report for this project.
- Plate 6 represents the Essex Quadrangle and covers the shore portion of Old Saybrook, all of Westbrook, and a portion of Clinton.
- Plate 7 represents the Clinton Quadrangle and covers the shore area for a portion of Clinton and Madison.
- Plate 8 represents the Guilford Quadrangle and covers the shore area for a portion of Madison, all of Guilford, and a portion of Branford.
- Plate 9 represents the Branford Quadrangle and covers the shore area for portions of Branford and East Haven.
- Plate 10 represents the Woodmont Quadrangle and covers the shore area for a portion of East Haven and Milford.
- Plate 11 represents the Milford Quadrangle and covers the shore area for a portion of Milford. The Milford Quadrangle also covers the community of Stratford which is in Fairfield County and will be included in Phase III of this project.

The structure inventory numbers indicated on the plates correspond to the inventory numbers in the database.

## RESULTS

### SUMMARY

The phase II inventory covers the coastal shoreline of Middlesex and New Haven Counties, Connecticut. The results of this inventory consists of maps showing the locations of the structures, a record of information on each structure entered into the data base management system, and photographs of each structure. Data were gathered on 344 structures during the second phase of this inventory. A summary listing of the structures organized by town are presented in Table 2 - Table 9. The record of information on each structure and the photographs for each structure are organized by quadrangle, and inventory number and included in Appendix F through Appendix L.

## STRUCTURE DEFINITIONS

**GROIN.** A finger-like structure built perpendicular to the shoreline, and usually with other groins to trap littoral drift or retard erosion of the shore.

**SEAWALL.** A structure separating land and water areas, primarily designed to prevent erosion and other damage due to wave action. Also may retain soil behind wall to assist in resisting wave forces. The land behind the seawall is usually a fill area.

**BULKHEAD.** A structure placed on a bank or bluff to retain or prevent sliding of the land and protect the inland area against damage from wave action. Bulkheads are primarily soil retaining structures which are designed to also resist wave attack.

**REVEITMENT.** A stone or concrete armor facing placed on a bank or bluff, dune or embankment, of stone to protect a slope, embankment, or shore structure against erosion by wave action or currents.

**RIPRAP SHORELINE.** A layer or protective mound of rubble or stones placed to prevent erosion, scour, or sloughing of a structure or embankment.

**BREAKWATER.** A structure that protects a shore area, harbor, anchorage, or basin by intercepting waves. Breakwaters are wave energy barriers designed to protect any landforms or water area behind them from the direct assault of waves. A breakwater may be either shore connected or offshore. An offshore breakwater parallels the shore and is located in a water depth between 5 and 25 feet.

**JETTY.** A structure extending into the water to direct and confine river or tidal flow into a channel and prevent or reduce the shoaling of the channel by littoral material. Jetties located at the entrance to a bay or river also serve to protect the entrance channel from wave action and crosscurrents. Jetties also stabilize the inlet location when located at inlets through barrier beaches.

TABLE: 2  
Town of OLD SAYBROOK

Structure	Address	Quadrangle	Inventory Number
2 JETTIES	LYNDE POINT	OLD LYME	35.00
BREAKWATER	FENWICK	OLD LYME	36.00
SEAWALL	FENWICK	OLD LYME	37.00
SEAWALL	FENWICK	OLD LYME	38.00
GROIN	FENWICK	OLD LYME	39.00
GROIN	FENWICK	OLD LYME	40.00
GROIN	FENWICK	OLD LYME	41.00
6 GROINS	FENWICK	OLD LYME	42.00
5 GROINS	FENWICK	OLD LYME	43.00
SEAWALL/RIPRAP	FENWICK	OLD LYME	44.00
GROIN	FENWICK	OLD LYME	45.00
SEAWALL	FENWICK	OLD LYME	46.00
GROIN	FENWICK	OLD LYME	47.00
3 GROINS	ROUTE 154	OLD LYME	48.00
SEAWALL	ROUTE 154	OLD LYME	49.00
REVEIMENT	ROUTE 154	OLD LYME	50.00
GROIN	ROUTE 154	OLD LYME	51.00
SEAWALL	ROUTE 154	OLD LYME	52.00
GROIN	ROUTE 154	OLD LYME	53.00
BULKHEAD	SEA LANE ROAD	ESSEX	1.00
GROIN	SEA LANE	ESSEX	2.00
BULKHEAD SERIES	SEA LANE	ESSEX	3.00
REVEIMENT	HEARTLAND DRIVE	ESSEX	4.00
SEAWALL	CORNFIELD POINT	ESSEX	5.00
BULKHEAD	POINT ROAD	ESSEX	6.00
REVEIMENT	POINT ROAD	ESSEX	7.00
SEAWALL	WEST SHORE DRIVE	ESSEX	8.00
GROIN	27 WEST SHORE DRIVE	ESSEX	9.00
3 GROINS	WEST SHORE DRIVE	ESSEX	10.00
6 GROINS	WEST SHORE DRIVE	ESSEX	11.00
REVEIMENT	WEST SHORE DRIVE	ESSEX	12.00
GROIN	WEST SHORE DRIVE	ESSEX	13.00
SEAWALLS	WEST SHORE DRIVE	ESSEX	14.00
11 GROINS	WEST SHORE DRIVE	ESSEX	15.00
SEAWALLS	PLUM BANK ROAD	ESSEX	16.00
GROIN	PLUM BANK ROAD	ESSEX	17.00
GROIN	5 TOM'S ROAD	ESSEX	18.00
3 GROINS	TOM'S ROAD	ESSEX	19.00
4 GROINS	GREAT HAMMOCK ROAD	ESSEX	20.00
SEAWALL	BARNS ROAD SOUTH	ESSEX	21.00
2 GROINS	MIDDLETOWN AVENUE	ESSEX	22.00
BULKHEAD	MIDDLETOWN AVENUE	ESSEX	23.00
2 GROINS	HARTFORD AVENUE	ESSEX	24.00
GROIN	SEA LANE	ESSEX	25.00
SEAWALL	RED BIRD ROAD	ESSEX	26.00
JETTY	RED BIRD ROAD	ESSEX	27.00
2 GROINS	RED BIRD ROAD	ESSEX	28.00
6 GROINS	EAST BEACH ROAD	ESSEX	29.00

TABLE: 3  
Town of WESTBROOK

Structure	Address	Quadrangle	Inventory Number
GROIN	CHAPMAN BEACH ROAD	ESSEX	30.00
GROIN	CHAPMAN POND ROAD	ESSEX	31.00
SEAWALL	CHAPMAN ROAD	ESSEX	32.00
GROIN	CHAPMAN ROAD	ESSEX	33.00
3 GROINS	CHAPMAN ROAD	ESSEX	34.00
2 GROINS	CHAPMAN ROAD	ESSEX	35.00
GROIN	CHAPMAN ROAD	ESSEX	36.00
SEAWALL	OLD KELSEY POINT ROAD	ESSEX	37.00
GROIN	OLD KELSEY POINT ROAD	ESSEX	38.00
JETTY	OLD KELSEY POINT RD. #254	ESSEX	39.00
5 GROINS		ESSEX	40.00
GROIN	POINTING ROAD	ESSEX	41.00
GROIN	POINTINA ROAD	ESSEX	42.00
10 GROINS	POINTIANA	ESSEX	43.00
SEAWALL	SECOND AVENUE	ESSEX	44.00
4 GROINS	SECOND AVENUE	ESSEX	46.00
SEAWALL	LITTLE STANNARD BEACH RD.	ESSEX	47.00
GROIN	LITTLE STANNARD BEACH RD.	ESSEX	48.00
GROIN	LITTLE STANNARD BEACH RD.	ESSEX	49.00
GROIN	SALT ISLAND ROAD	ESSEX	50.00
GROIN	PEPPERIDGE AVENUE	ESSEX	51.00
BULKHEAD	SEASIDE AVENUE	ESSEX	52.00
RIPRAP	SEASIDE AVENUE	ESSEX	53.00
SEAWALL	SEASIDE AVENUE	ESSEX	54.00
7 GROINS	SEASIDE AVENUE	ESSEX	55.00
GROIN	SEASIDE AVENUE	ESSEX	56.00
SEAWALL	SEASIDE AVENUE	ESSEX	57.00
JETTY	SEASIDE AVENUE	ESSEX	58.00
SEAWALL	438 SEASIDE AVENUE	ESSEX	59.00
SEAWALL	SEASIDE AVENUE	ESSEX	60.00
5 GROINS	SEASIDE AVENUE	ESSEX	61.00
GROIN	SEASIDE AVENUE	ESSEX	62.00
SEAWALL/RIPRAP	SEASIDE AVENUE	ESSEX	63.00
SEAWALL	CAPTAINS DRIVE	ESSEX	64.00
SEAWALL	122 CAPTAINS DRIVE	ESSEX	65.00
SEAWALL		ESSEX	66.00
2 GROINS		ESSEX	67.00
JETTY	GROVE BEACH POINT	ESSEX	68.00
BREAKWATER	DUCK ISLAND	ESSEX	69.00
2 GROINS	OLD MAIL TRAIL	ESSEX	70.00
1 GROIN	OLD MAIL TRAIL	ESSEX	71.00
GROIN	OLD MAIL TRAIL	ESSEX	72.00
GROIN	OLD MAIL TRAIL	ESSEX	73.00
GROIN	OLD MAIL TRAIL	ESSEX	74.00

TABLE: 4  
Town of CLINTON

Structure	Address	Quadrangle	Inventory Number
SEAWALL	GROVE BEACH ROAD	ESSEX	75.00
SEAWALL	GROVE BEACH ROAD	ESSEX	76.00
4 GROINS	GROVE BEACH ROAD	ESSEX	77.00
GROIN	189 SHORE ROAD	ESSEX	78.00
2 GROINS	187 SHORE ROAD	ESSEX	79.00
3 GROINS	177 SHORE DRIVE	CLINTON	1.00
GROIN	165 SHORE ROAD	CLINTON	2.00
6 GROINS	161 SHORE ROAD	CLINTON	3.00
SEAWALL	149 SHORE ROAD	CLINTON	4.00
GROIN	129 SHORE ROAD	CLINTON	5.00
GROIN	137 SHORE ROAD	CLINTON	6.00
5 GROINS	129 SHORE ROAD	CLINTON	7.00
6 GROINS	105 SHORE ROAD	CLINTON	8.00
3 GROINS	75 SHORE ROAD	CLINTON	9.00
GROIN	67 SHORE ROAD	CLINTON	10.00
5 GROINS	61 SHORE ROAD	CLINTON	11.00
GROIN	51 SHORE ROAD	CLINTON	12.00
5 GROINS	47 SHORE ROAD	CLINTON	13.00
SEAWALL	43-51 SHORE ROAD	CLINTON	14.00
GROIN	23 SHORE ROAD	CLINTON	15.00
13 GROINS	21-23 SHORE ROAD	CLINTON	16.00
SEAWALL	30-32 SAUL'S POINT ROAD	CLINTON	17.00
GROIN	SAULS POINT ROAD	CLINTON	18.00
GROIN	EAST WALK STREET	CLINTON	19.00
SEAWALL/BLKHEAD	1 EAST WALK ST-HAMMOCK PT	CLINTON	20.00
BREAKWATER	EAST WALK STREET	CLINTON	21.00
GROIN	26 BEACH PARK ROAD	CLINTON	22.00
11 GROINS	35 ETC. HAMMACK ROAD	CLINTON	23.00
DIKE	CEDAR ISLAND	CLINTON	24.00

TABLE: 5  
Town of MADISON

Structure	Address	Quadrangle	Inventory Number
JETTY	HAMMONASSETT STATE PARK	CLINTON	25.00
JETTY	HAMMONASSETT STATE PARK	CLINTON	26.00
GROIN	79 WEST POINT ROAD	CLINTON	27.00
SEAWALL	WEST POINT ROAD	CLINTON	28.00
GROIN	WEBSTER POINT ROAD	CLINTON	29.00
RIPRAP	HOTCHKISS LANE	CLINTON	30.00
SEAWALL	HOTCHKISS LN -NEPTUNE AVE	CLINTON	31.00
2 GROINS		CLINTON	32.00
SEAWALL	MIDDLE BEACH ROAD	CLINTON	33.00
SEAWALL	MIDDLE BEACH ROAD	CLINTON	34.00
GROIN	MIDDLE BEACH ROAD	CLINTON	35.00
JETTY	MIDDLE BEACH	CLINTON	36.00
3 GROINS	118 MIDDLE BEACH ROAD	CLINTON	37.00
SEAWALL	118 MIDDLE BEACH ROAD	CLINTON	38.00
3 GROINS	78 MIDDLE BEACH ROAD	CLINTON	39.00
SEAWALL/RIPRAP	MIDDLE BEACH ROAD	CLINTON	40.00
BULKHEAD/RIPRAP	MIDDLE BEACH ROAD	CLINTON	41.00
5 GROINS	ISLAND AVENUE	CLINTON	42.00
SEAWALL	29 ISLAND AVENUE	CLINTON	43.00
3 GROINS	49 ISLAND AVENUE	CLINTON	44.00
JETTY	WEST WHARF ROAD	CLINTON	45.00
SEAWALL/RIPRAP	MADISON SURF CLUB	CLINTON	46.00
4 GROINS	LONGSHORE LANE	CLINTON	47.00
SEAWALL	LONG SHORE LANE	CLINTON	48.00
SEAWALL	TOFFEE LANE	GUILFORD	1.00
SEAWALL	HARBOR AVENUE	GUILFORD	2.00
GROIN	HARBOR AVENUE	GUILFORD	3.00
GROIN	BEACH AVENUE	GUILFORD	4.00
SEAWALL	BEACH AVENUE	GUILFORD	5.00
SEAWALL	PLEASANT VIEW	GUILFORD	6.00
2 GROINS	167 NECK ROAD	GUILFORD	7.00
RIPRAP	167 NECK ROAD	GUILFORD	8.00
SEAWALL	167 NECK RD-86 HARTFORD	GUILFORD	9.00
GROIN	167 NECK ROAD	GUILFORD	10.00
BULKHEAD	HARTFORD AVENUE	GUILFORD	11.00
SEAWALL	SOUNDVIEW AVENUE	GUILFORD	12.00
2 GROINS	SOUNDVIEW AVENUE	GUILFORD	13.00
SEAWALL	61 SOUNDVIEW-12 CIRCLE BH	GUILFORD	14.00
6 GROINS	CIRCLE BEACH ROAD	GUILFORD	15.00
RIPRAP	49-59 CIRCLE BEACH ROAD	GUILFORD	16.00
SEAWALL	75-105 CIRCLE BEACH ROAD	GUILFORD	17.00
JETTY	111 CIRCLE BEACH ROAD	GUILFORD	18.00
BULKHEAD	111 CIRCLE BEACH ROAD	GUILFORD	19.00

TABLE: 6  
Town of GUILFORD

Structure	Address	Quadrangle	Inventory Number
GROIN	120 CIRCLE BEACH ROAD	GUILFORD	20.00
SEAWALL	120-146 CIRCLE BEACH ROAD	GUILFORD	21.00
REVEIMENT	LOWER WHITFIELD STREET	GUILFORD	22.00
JETTY		GUILFORD	23.00
SEAWALL	GUILFORD POINT DRIVE	GUILFORD	24.00
RIPRAP		GUILFORD	25.00
RIPRAP	ROCK LANE	GUILFORD	26.00
SEAWALL	WHITE TOP LANE	GUILFORD	27.00
SEAWALL	MARSHAL AVENUE	GUILFORD	28.00
SEAWALL	MARSHAL AVE	GUILFORD	29.00
RIPRAP	MARSHAL AVENUE	GUILFORD	30.00
SEAWALL	MULBERRY ROAD	GUILFORD	31.00
GROIN	MULBERRY POINT ROAD	GUILFORD	32.00
RIPRAP	MULBERRY POINT ROAD	GUILFORD	33.00
GROIN	INDIAN COVE ROAD	GUILFORD	34.00
SEAWALL	PRIVATE ROAD (UNKNOWN)	GUILFORD	35.00
JETTY	PRIVATE ROAD (UNKNOWN)	GUILFORD	37.00
SEAWALL	PRIVATE ROAD (UNKNOWN)	GUILFORD	38.00
SEAWALL	VINEYARD POINT	GUILFORD	39.00
RIPRAP	VINEYARD POINT	GUILFORD	40.00
RIPRAP	FALCON ROAD	GUILFORD	41.00
SEAWALL	FALCON ROAD	GUILFORD	42.00
SEAWALL	FALCON ROAD	GUILFORD	43.00
2 GROINS	PROSPECT AVENUE	GUILFORD	44.00
SEAWALL	ROYAL LEDGE LANE	GUILFORD	45.00
SEAWALL	SACHEM'S HEAD YACHT CLUB	GUILFORD	46.00
JETTY	SACHEM'S HEAD YACHT CLUB	GUILFORD	47.00
2 SEAWALLS	68 UNCAS CIRCLE	GUILFORD	48.00
SEAWALL	UNCAS CIRCLE	GUILFORD	49.00
7 GROINS	WATERSIDE DRIVE	GUILFORD	50.00
SEAWALL	WATERSIDE DRIVE	GUILFORD	51.00
RIPRAP		GUILFORD	52.00
SEAWALL	GREAT HARBOR ROAD	GUILFORD	53.00
GROIN	GREAT HARBOR ROAD	GUILFORD	54.00
SEAWALL/RIPRAP		GUILFORD	55.00
SEAWALL		GUILFORD	56.00
5 GROINS		GUILFORD	57.00
RIPRAP		GUILFORD	58.00
JETTY		GUILFORD	59.00
SEAWALL	LITTLE HARBOR	GUILFORD	60.00
SEAWALL	LITTLE HARBOR	GUILFORD	61.00
JETTY		GUILFORD	62.00
SEAWALL		GUILFORD	63.00
SEAWALL		GUILFORD	64.00
SEAWALL	OLD QUARRY ROAD	GUILFORD	65.00
SEAWALL	NARROWS ISLAND	GUILFORD	66.00
JETTY	NARROWS ISLAND	GUILFORD	67.00
SEAWALL	NARROWS ISLAND	GUILFORD	68.00
SEAWALL		GUILFORD	69.00
JETTY		GUILFORD	70.00
SEAWALL		GUILFORD	71.00

TABLE: 7  
Town of BRANFORD

Structure	Address	Quadrangle	Inventory Number
SEAWALL		GUILFORD	72.00
SEAWALL	FLYING POINT ROAD	BRANFORD	1.00
SEAWALL	RAND'S POINT	BRANFORD	2.00
RIPRAP	LINDEN POINT ROAD	BRANFORD	3.00
SEAWALL	THIMBLES ISLAND ROAD	BRANFORD	4.00
SEAWALL	THIMBLES ISLAND ROAD	BRANFORD	5.00
SEAWALL	HALLS POINT ROAD	BRANFORD	6.00
SEAWALL/BLKHEAD	PLEASANT POINT ROAD	BRANFORD	7.00
GROIN	395 PINE ORCHARD ROAD	BRANFORD	8.00
SEAWALL	PINE ORCHARD ROAD	BRANFORD	9.00
GROIN	PINE ORCHARD ROAD	BRANFORD	10.00
BULKHEAD	2 PARK DRIVE	BRANFORD	11.00
SEAWALL	BRANDGEE-ISLAND VIEW AVE.	BRANFORD	12.00
BREAKWATER	BROWN POINT	BRANFORD	13.00
3 GROINS	HALSTEAD LAND	BRANFORD	14.00
RIPRAP	HALSTEAD LANE	BRANFORD	15.00
SEAWALL	PINE ORCHARD ROAD	BRANFORD	16.00
SEAWALL	FIRST AVENUE	BRANFORD	17.00
SEAWALL	SEAVIEW AVE TO HAYCOCK PT	BRANFORD	18.00
BREAKWATER	HAYCOCK POINT ROAD	BRANFORD	19.00
SEAWALL/REVIEMNT	ROUTE 146	BRANFORD	20.00
GROIN	ROUTE 146	BRANFORD	21.00
SEAWALL	ROUTE 146	BRANFORD	22.00
2 GROINS	SOUND VIEW HEIGHTS	BRANFORD	23.00
BREAKWATER	SOUND VIEW HEIGHTS	BRANFORD	24.00
GROIN	LINDEN ROAD	BRANFORD	25.00
GROIN	RTE 146/OPP. PAWSON ROAD	BRANFORD	26.00
GROIN	ROUTE 146	BRANFORD	27.00
SEAWALL/BLKHEAD	LINDEN POINT	BRANFORD	28.00
SEAWALL	BAYBERRY LN/SUMMER IS. RD	BRANFORD	29.00
BREAKWATER	SUMMER ISLAND ROAD EXTEN.	BRANFORD	30.00
SEAWALL	SUNSET BEACH ROAD	BRANFORD	31.00
SEAWALL	JEFFERY POINT	BRANFORD	32.00
SEAWALL	SUNSET BEACH ROAD	BRANFORD	33.00
BULKHEAD	SUNSET BEACH ROAD	BRANFORD	34.00
JETTY	BRANFORD PT./HARBOR ROAD	BRANFORD	35.00
SEAWALL	HARBOR ROAD	BRANFORD	36.00
SEAWALL	SUNRISE COVE	BRANFORD	37.00
SEAWALL	100 DOUBLE BEACH ROAD	BRANFORD	38.00
REVEIMENT	TURTLE COVE	BRANFORD	39.00
SEAWALL	TURTLE COVE	BRANFORD	40.00
BREAKWATER	JOHNSON'S POINT	BRANFORD	41.00
SEAWALL	JOHNSON'S POINT	BRANFORD	42.00
SEAWALL	JOHNSON'S POINT	BRANFORD	43.00
BULKHEAD	JOHNSON'S POINT	BRANFORD	44.00
BREAKWATER	JOHNSON'S POINT	BRANFORD	45.00
SEAWALL	KILMAN'S POINT	BRANFORD	46.00
SEAWALL	KILMAN POINT ROAD	BRANFORD	47.00
RIPRAP	302 SHORE DRIVE	BRANFORD	48.00
SEAWALL	SHORE DRIVE/PAGES COVE	BRANFORD	49.00
SEAWALL	STANLEY POINT/SHORE DRIVE	BRANFORD	50.00
SEAWALL	SHORT BEACH	BRANFORD	51.00
SEAWALL	200 PAYNES POINT ROAD	BRANFORD	52.00
SEAWALL	PAYNES POINT ROAD	BRANFORD	53.00

TABLE: 8  
Town of EAST HAVEN

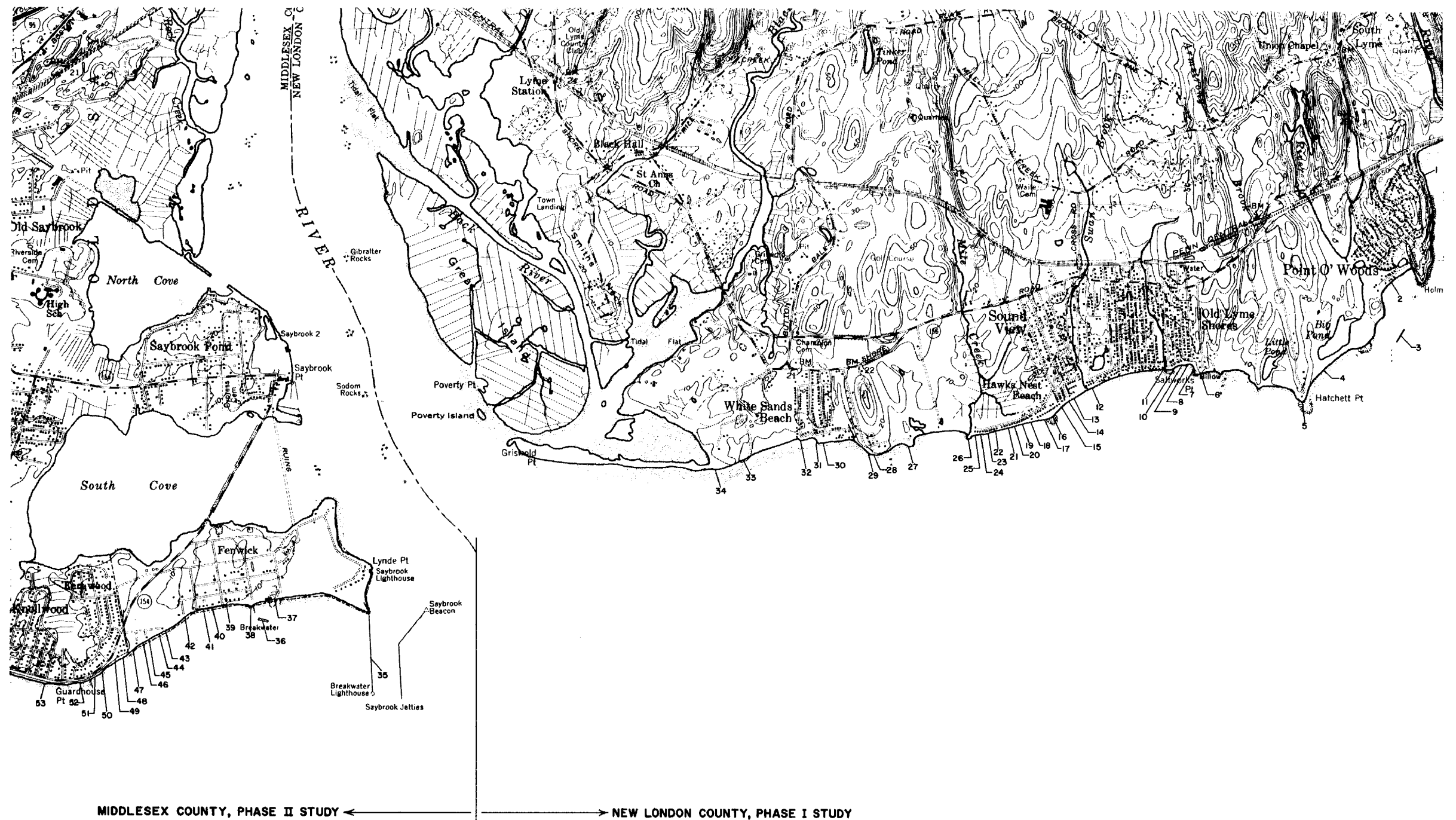
Structure	Address	Quadrangle	Inventory Number
JETTY	COSEY BEACH AVE	BRANFORD	54.00
SEAWALL	COSEY BEACH AVE	BRANFORD	55.00
GROIN	FIRST AVE	BRANFORD	56.00
GROIN	FIRST AVE	BRANFORD	56.00
3 GROINS	COSEY BEACH AVE	BRANFORD	57.00
SEAWALL	COSEY BEACH AVE	BRANFORD	58.00
SEAWALL	229 COSEY BEACH AVE	WOODMONT	1.00
2 GROINS	247 COSEY BEACH AVE	WOODMONT	2.00
SEAWALL	COSEY BEACH AVE	WOODMONT	3.00
GROIN	318 COSEY BEACH AVE	WOODMONT	4.00
2 GROINS	334 COSEY BEACH AVE	WOODMONT	5.00
SEAWALL	COSEY BEACH AVE	WOODMONT	6.00
5 GROINS	COSEY BEACH AVE	WOODMONT	7.00
4 GROINS	388 COSEY BEACH AVE	WOODMONT	8.00
GROIN	8 CAROLINE RD	WOODMONT	9.00
2 GROINS	12,34 CAROLINE RD	WOODMONT	10.00
GROIN	10 MORGAN TERRACE	WOODMONT	11.00
SEAWALL	HAMPTON RD	WOODMONT	12.00
JETTY	12 MORGAN TERRACE	WOODMONT	13.00
JETTY	30 MORGAN TERRACE	WOODMONT	14.00
SEAWALL	HAMPTON RD	WOODMONT	15.00
4 GROINS	HAMPTON RD	WOODMONT	16.00
GROIN	LIGHTHOUSE POINT	WOODMONT	17.00

TABLE: 9  
Town of MILFORD

Structure	Address	Quadrangle	Inventory Number
SEAWALL	1642 NEW HAVEN AVE	WOODMONT	18.00
RIPRAP	ROSEMARY AVENUE	WOODMONT	19.00
GROIN	ROSEMARY AVE	WOODMONT	20.00
BULKHEAD	ANDERSON AVE, BEACH AVE	WOODMONT	21.00
GROIN	ANDERSON AVE	WOODMONT	22.00
GROIN	ANDERSON AVE	WOODMONT	23.00
GROIN	2 BEACH AVE	WOODMONT	24.00
GROIN	BEACH AVE AND BELMONT	WOODMONT	25.00
RIPRAP	BEACH AVE	WOODMONT	26.00
GROIN	BEACH AVE	WOODMONT	27.00
GROIN	CLINTON AVE	WOODMONT	28.00
GROIN		WOODMONT	29.00
SEAWALL	BEACH AVE	WOODMONT	30.00
SEAWALL		WOODMONT	31.00
SEAWALL	HILLSIDE AVE	MILFORD	1.00
9 GROINS	HILLSIDE AVE	MILFORD	2.00
REVEIMENT	HILLSIDE AVE	MILFORD	3.00
5 GROINS	HILLSIDE AVE	MILFORD	4.00
4 GROINS	HILLSIDE AVE	MILFORD	5.00
BULKHEAD	PT BEACH DRIVE	MILFORD	6.00
BULKHEAD	PT BEACH DRIVE	MILFORD	7.00
9 GROINS	POINT BEACH DRIVE	MILFORD	8.00
6 GROINS	POINT BEACH DRIVE	MILFORD	9.00
2 GROINS	POINT BEACH	MILFORD	10.00
SEAWALL	POINT BEACH	MILFORD	11.00
3 GROINS	POINT BEACH	MILFORD	12.00
GROIN	BAY VIEW BEACH	MILFORD	13.00
SEAWALL	BAY VIEW BEACH	MILFORD	14.00
4 GROINS	7 LAWRENCE, BAYVIEW BEACH	MILFORD	15.00
BULKHEAD	POINT LOOKOUT	MILFORD	16.00
2 GROINS	PT LOOKOUT	MILFORD	17.00
GROIN	POINT LOOKOUT	MILFORD	18.00
9 GROINS	POINT LOOKOUT	MILFORD	19.00
REVEIMENT	GULF STREET	MILFORD	20.00
RIPRAP	GULF STREET	MILFORD	21.00
4 GROINS	GULF STREET	MILFORD	22.00
JETTY	GULF ST	MILFORD	23.00
JETTY	BURNS POINT	MILFORD	24.00
SEAWALL/RIPRAP	SEASIDE AVE	MILFORD	25.00
TRAINING WALL	E. BROADWAY, SILVER BEACH	MILFORD	26.00
GROIN	E. BROADWAY, SILVER BEACH	MILFORD	27.00
SEAWALL/RIPRAP	E. BROADWAY, SILVER BEACH	MILFORD	28.00
GROIN	E. BROADWAY	MILFORD	29.00
SEAWALL	E. BROADWAY, MYRTLE BEACH	MILFORD	30.00
GROIN	E. BROADWAY, MYRTLE BEACH	MILFORD	31.00
GROIN	E. BROADWAY, WALNUT BEACH	MILFORD	32.00
RIP RAP	E. BROADWAY, WALNUT BEACH	MILFORD	33.00
SEAWALLS	BROADWAY ST	MILFORD	34.00
GROIN	BROADWAY, LAUREL BEACH	MILFORD	35.00
GROIN	BROADWAY, LAUREL BEACH	MILFORD	36.00
SEAWALL	BROADWAY, LAUREL BEACH	MILFORD	37.00
BREAKWATER	MILFORD POINT	MILFORD	38.00

#### LITERATURE CITED

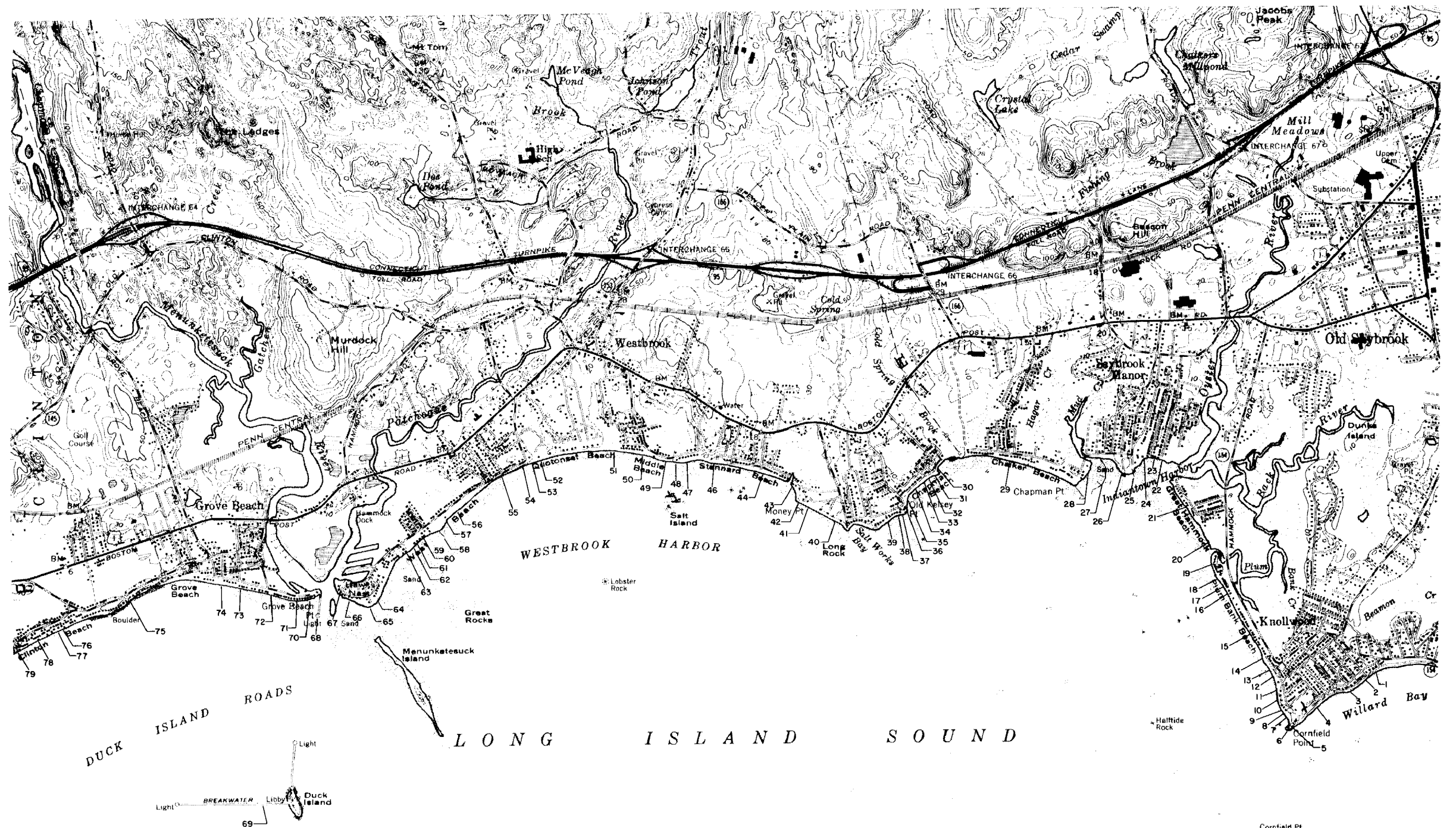
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GRAPHIC SCALES  
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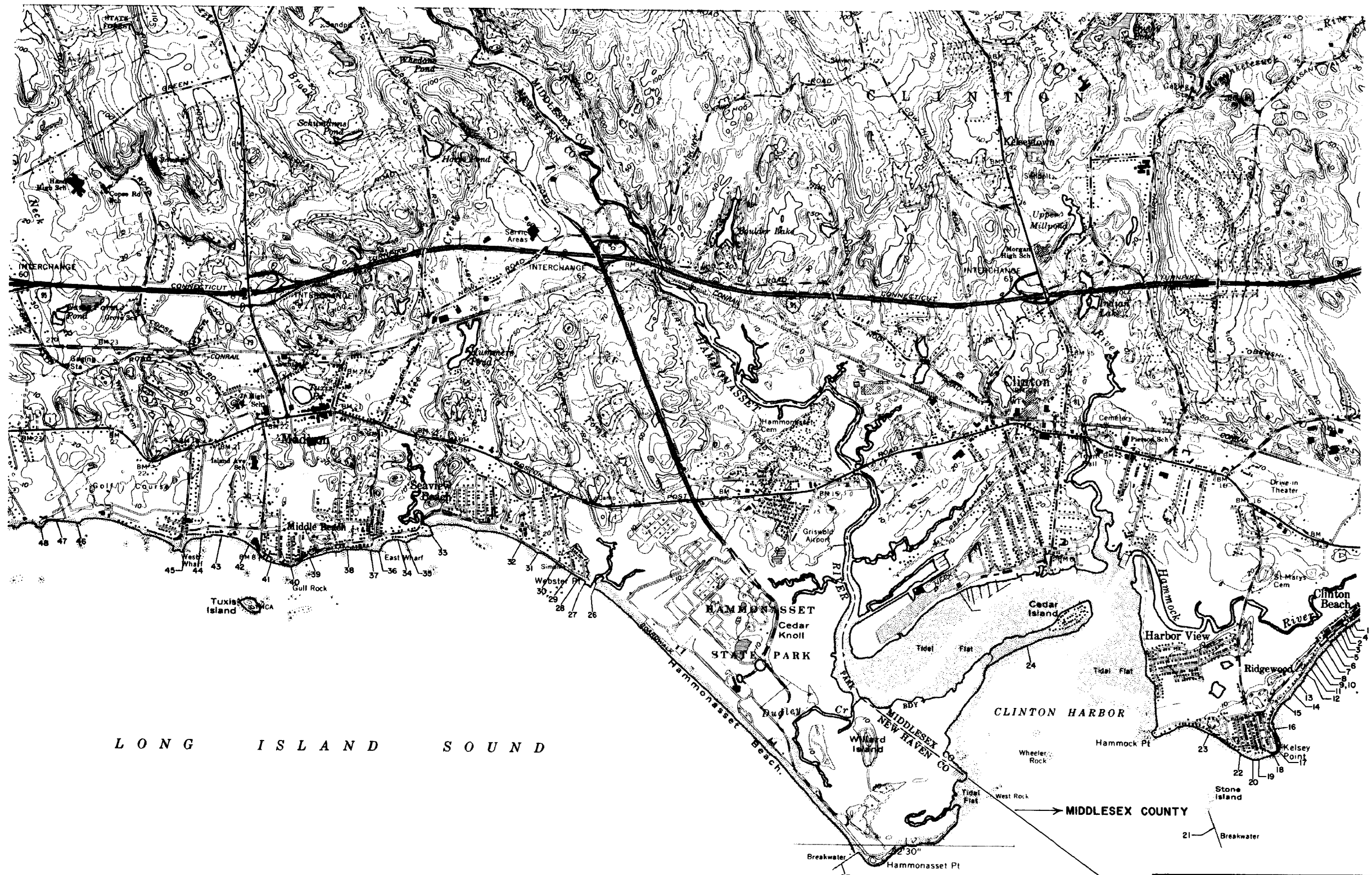
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INVENTORY  
OLD LYME QUADRANGLE



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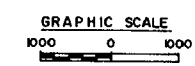
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LONG ISLAND SOUND

NEW HAVEN COUNTY

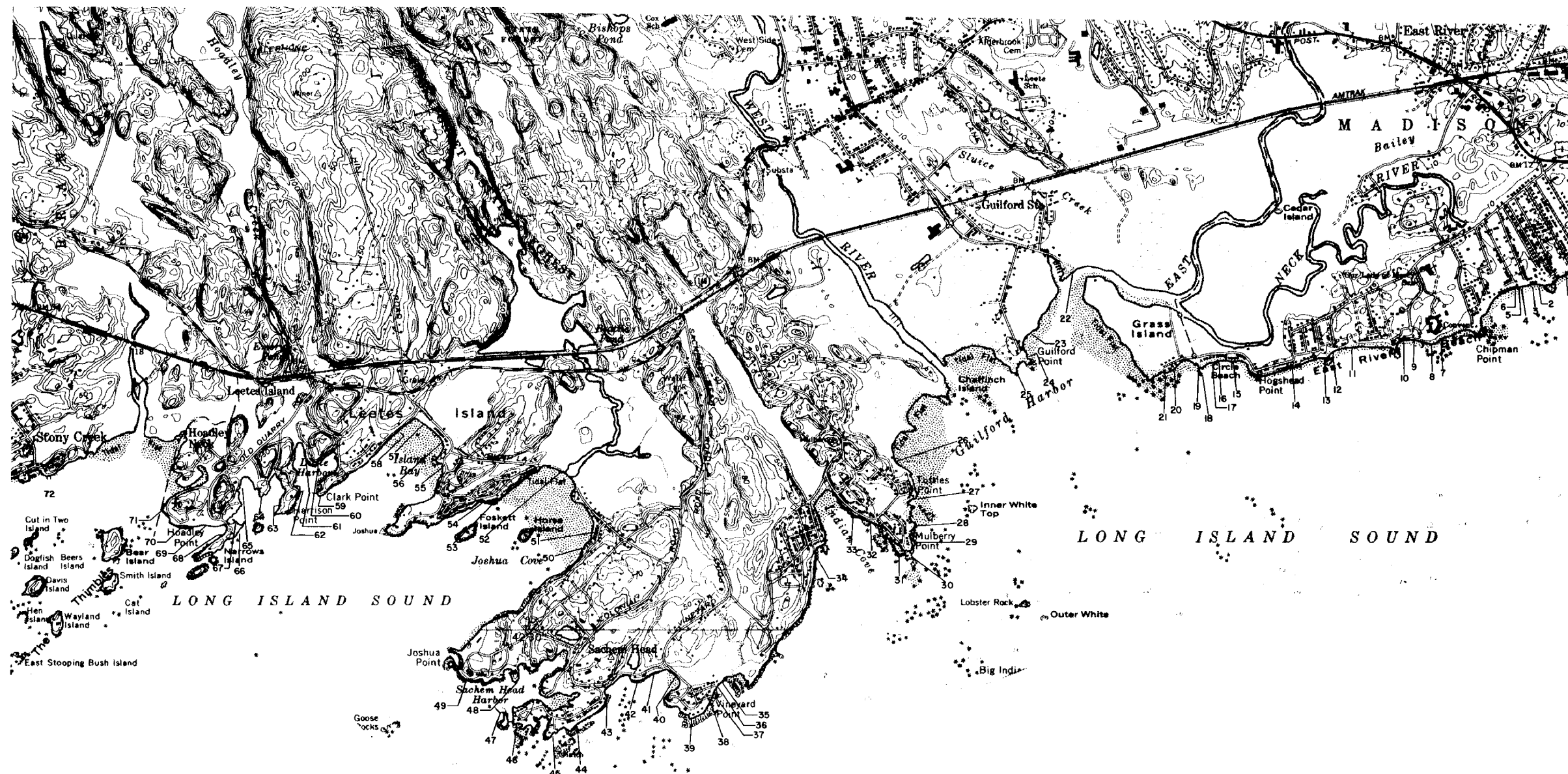
MIDDLESEX COUNTY



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INVENTORY**

**CLINTON QUADRANGLE**

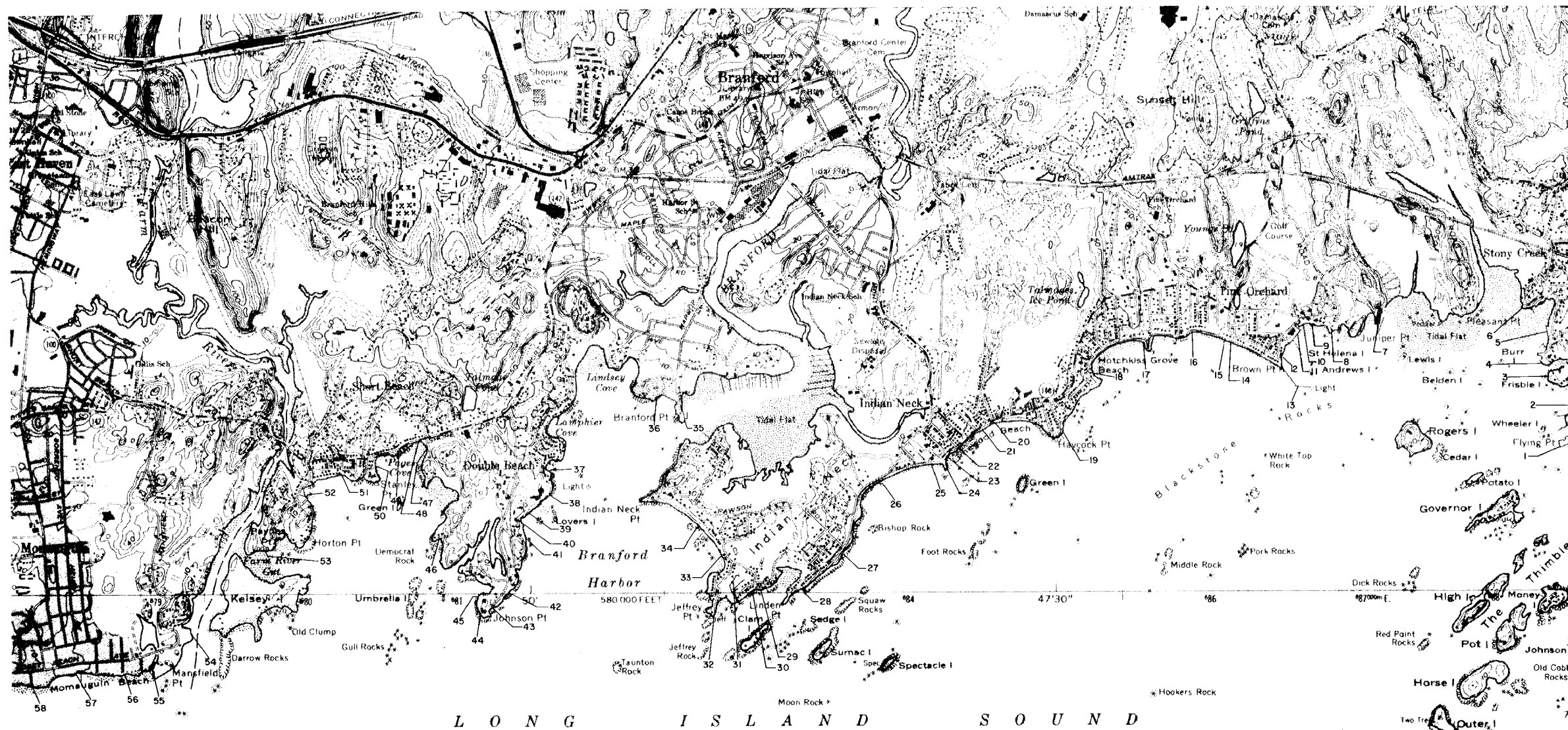


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**GUILFORD      QUADRANGLE**



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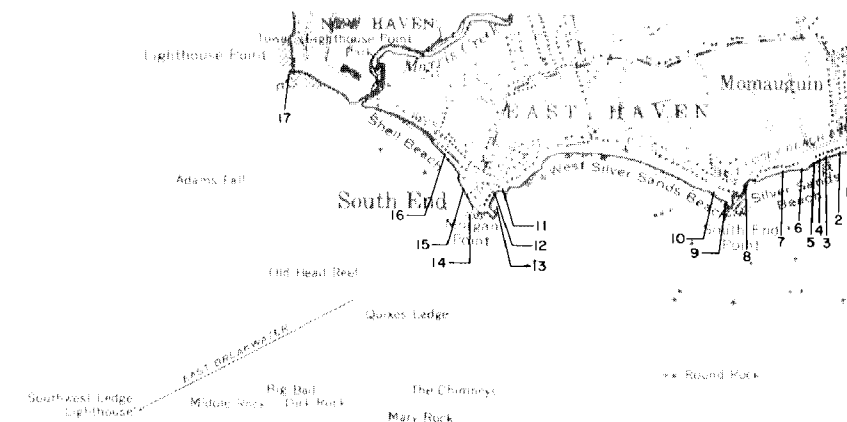
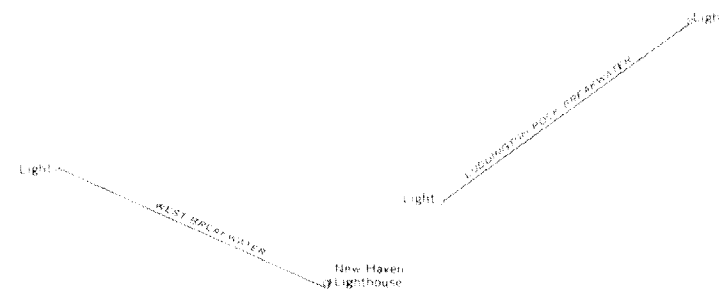
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CONNECTICUT COASTAL STRUCTURES  
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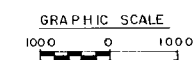
BRANFORD QUADRANGLE



NEW HAVEN HARBOR  
(NOTE: HARBOR NOT INCLUDED IN THIS STUDY)



L O N G I S L A N D S O U N D



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WALTHAM, MASS.

CONNECTICUT COASTAL STRUCTURES  
INVENTORY

WOODMONT      QUADRANGLE



GRAPHIC SCALE  
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WALTHAM, MASS.

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INVENTORY

MILFORD QUADRANGLE